

CLAIMS

1. Process for the sterilization and/or germ reduction of impression materials and/or their components, comprising subjecting the impression materials and/or their components to radiation sterilization.
2. Process according to Claim 1, wherein the impression materials and/or their components are two-component impression materials, which are cross-linked into an elastomer material.
3. Process according to Claim 2, wherein the impression materials and/or their components further comprise additional condensation or via (meth)acrylate groups cross-linkable silicon impression materials, or addition, condensation, or via ring opening or (meth)acrylate groups cross-linkable polyether impression materials.
4. Process according to Claim 1, wherein the impression materials and/or their components are impression materials which can be handled as a system (powder: fluids).
5. Process according to Claim 4, wherein the impression materials and/or their components comprise an alginate impression material (powder: water).
6. Process according to Claim 1, wherein an additional cross-linking silicon impression material is used, which contains in the formulation vinyl group containing polysiloxanes with at least partially present diphenyl siloxane- and/or phenyl methyl siloxane structural units.
7. Process according to Claim 6, wherein polymers are used, which contain at least 3 Mol-%, preferably at least 10 Mol-% diphenyl siloxane and/or phenyl methyl siloxane units.

8. Process according to Claim 1, which further comprises sterilizing the impression material and/or its components in a primary packaging agent.
9. Process according to Claim 8, wherein the impression material and/or its components are arranged in the primary packaging and are simultaneously treated with accessories for mixing or for application of the impression material.
10. Process according to Claim 8, wherein a twin-chamber cartridge is used as primary packaging and a mixing nozzle as accessory.
11. Process according to Claim 1, wherein the radiation sterilization is performed by means of gamma rays or electron rays.
12. Process according to Claim 11, wherein a radiation dose of a maximum of 50 kGy, preferably 20 to 30 kGy, is used.
13. Process according to Claim 1, wherein the impression materials are used in the medical field.
14. Process according to Claim 13, wherein the impression materials are used in the dental field, in orthopedics, in otoplasty, in epithetics, defect surgery, veterinary medicine, in the field of molding in ENT-medicine or for the molding of skin parts.
15. Process according to Claim 1, wherein the impression materials are used for the production of stamps for the transfer of structures, especially of biological and/or pharmaceutically active substrates.